

WHAT IS CLAIMED IS:

1. A scanner unit comprising:

a carriage provided with a frame extending in a first direction along a document surface of a document set substantially horizontal, and an optical member mounted on the frame for illuminating the document surface and guiding light reflected from the document surface to light receiving means;

5 a rail extending along the document surface in a second direction perpendicular to the first direction, and mounting thereon the frame such that the frame can slide in the second direction;

10 a first inhibiting element for receiving a part of the frame when the carriage has slid along the rail to a hold position, thereby inhibiting a movement of the frame in the first direction; and

15 a second inhibiting element for holding another part of the frame together with the rail when the carriage has slid to the hold position, thereby inhibiting a vertically upward movement of the frame.

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2. The scanner unit according to claim 1, wherein the second inhibiting element includes a plurality of inhibiting elements arranged in the second direction.

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3. The scanner unit according to claim 2, wherein the second inhibiting elements are provided along those opposite sides of the frame, which extend in the first direction.

4. The scanner unit according to claim 2, wherein
the first inhibiting element is provided in that one of
the second inhibiting elements, which is located at a
most upstream side in the direction in which the
5 carriage slides toward the hold position.

5. The scanner unit according to claim 1, wherein
the first and second inhibiting elements are located in
positions in which the first and second inhibiting
elements do not interrupt the frame when the frame is
10 situated in a position other than the hold position.

6. The scanner unit according to claim 1, wherein
the first inhibiting element has a spring structure for
preventing the part of the frame from moving in the
first direction, and the second inhibiting element has
15 a spring structure for pressing said another part of
the frame against the rail to hold the frame.

7. A scanner unit comprising:

a first carriage provided with a first frame
extending in a first direction along a document surface
20 of a document set substantially horizontal, and an
optical member mounted on the first frame for
illuminating the document surface and guiding light
reflected from the document surface;

a second carriage provided with a second frame
extending in the first direction along a document
surface of a document set substantially horizontal, and
25 an optical member mounted on the second frame for

guiding, to light receiving means, light guided from the document surface via the optical member mounted on the first frame;

5 a first rail extending along the document surface in a second direction perpendicular to the first direction, and mounting thereon the first frame such that the first frame can slide in the second direction;

10 a second rail extending in the second direction and supporting the second frame such that the second frame can slide in the second direction;

a fixing member that fixes the second frame at one end side of the second rail;

15 a coupling member coupling the first and second frames such that the first frame can be driven by the second frame, or vice versa, the first carriage being driven by the second carriage and slid to a hold position when the second frame is fixed in a predetermined position by the fixing member;

20 a first inhibiting element for receiving a part of the first frame when the first carriage has slid along the first rail to the hold position, thereby inhibiting a movement of the first frame in the first direction; and

25 a second inhibiting element for holding another part of the first frame together with the first rail when the first carriage has slid to the hold position, thereby inhibiting a vertically upward movement of the

first frame.

8. The scanner unit according to claim 7, wherein the second inhibiting element includes a plurality of inhibiting elements arranged in the second direction.

5 9. The scanner unit according to claim 8, wherein the second inhibiting elements are provided along those opposite side of the first frame, which extend in the first direction.

10 10. The scanner unit according to claim 8, wherein the first inhibiting element is provided in that one of the second inhibiting elements, which is located at a most upstream side in the direction in which the first carriage slides toward the hold position.

15 11. The scanner unit according to claim 7, wherein the first and second inhibiting elements are located in positions in which the first and second inhibiting elements do not interrupt the first frame when the first frame is released from a fixed state by the fixing member and slides along the first rail to a 20 position other than the hold position.

12. The scanner unit according to claim 7, wherein the first inhibiting element has a spring structure for preventing the part of the first frame from moving in the first direction, and the second inhibiting element 25 has a spring structure for pressing said another part of the first frame against the first rail to hold the frame.

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